



**METHOD FOR USING A WHOLE DIGIT CODE TO ASSIGN AN ADDRESS TO A  
COMPUTER**

FIELD OF THE INVENTION

[0001] This invention relates to a method for assigning addresses to online computers, especially, it relates to the method of assigning addresses to online computers in the form of full digital code.

BACKGROUND OF THE ART

[0002] With the rapid development of technology, the world has entered into the information era of data communication. The Internet, which was established by the U.S.A. in 1968 and is considered to be the pioneer of the information highway, is the most famous one among the data networks of the world. By now, a great number of countries and areas have joined the Internet family. China already has several international gateways linking with the Internet--the biggest international web in the world--and the number of user terminals is increasing at a remarkable speed.

[0003] In order to transfer information correctly to its destination on the Internet, each computer connected to the Internet must have one unique address. For the time being, there are three kinds of address coding solutions currently in use internationally and domestically. One is the IP address, which is constituted of four fields of digits separated by decimal points; another is the "domain name", which normally is constituted of not more than five sets of character strings separated by decimal points; and the last one is the "Chinese domain name hierarchy system", which is constituted of three levels of domain names separated by decimal points and a slash. Although the above address coding solutions can assign each online computer one unique

address, they all have the shortcomings of complexity, lack of unity and difficulty of remembering and inputting.

### SUMMARY OF THE INVENTION

**[0004]** The purpose of this invention is to overcome the shortcomings of the current online computer address coding solutions mentioned above. This invention offers a solution of full digital coding, which is simple, easy to use, and easy to remember, which can be input not only by using a computer keyboard, but also by accessing an E-mail box using the telephone keyboard input and by browsing the Internet.

**[0005]** The technical project to implement this invention utilizes the solution for assigning addresses to online computers using full digital code. It has the following characteristics: it is constituted of a full digital code address, which is composed of an online number, a telephone number, and a category number.

**[0006]** Here, the online number refers to a digital number of the established network site, which is specified by the country or area; the telephone number includes the combination of the IDDD code of the user's country, the area code of the domestic DDD of the user's area, and the telephone number of the user's company or home; and the category number is the digital number specified by the country or area, respectively, for uniformly demarcating the business category.

**[0007]** A method is disclosed for accessing an E-mail box and browsing the Internet by using the coded addresses of the above solution, wherein: the E-mail box can be accessed, or the Internet can be browsed, by inputting into the modem of the computer by dialing a keyboard of a dial-up telephone or typing into a computer keyboard; by linking the corresponding digital code; and by converting the digital code with dedicated software.

[0008] The full digital code address (FDCA) can be translated by the dedicated interpreting software into an IP address, a domain name, or a Chinese hierarchy system domain name, and each such address corresponds appropriately to only one existing IP address, domain name, or Chinese hierarchy system domain name.

[0009] Once the above mentioned technical project is adopted according to this invention, accessing an E-mail box, or browsing the Internet will be simple, and easy to remember and administer, while each assigned address will be unique.

#### DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0010] The advantages and the features of this invention will be explained further by the following embodiment.

[0011] The solution for assigning addresses to online computers uses full digital code: the full digital code address ("FDCA") being composed of the online number, the telephone number, and the category number. The online number refers to the digital number of the established network site that is specified by the country or area. For example, the online number of "Shanghai hotline" of Shanghai, China is "8888". The telephone number includes the combination of the IDDD code of the country where the user is located; the area code of the domestic DDD of the user's area; and the telephone number of the user's company or home. For example, for the telephone number "008602162572047", "0086" is China's IDDD code, "021" is the area code of the domestic DDD code for Shanghai, and "62572047" is the user's telephone number. The combination of these three parts of the numbers makes up the "telephone number" part of the FDCA. This is the key point of FDCA, it is simple, and easy to remember, and will never be repeated. The category number is the digital number specified by the country or area, respectively, for uniformly demarcating the business category. This part of the digital number

can be set according to the regulations of the user's country or area, or the network site. It can be specified as big categories or subcategories, though usually only the big categories are specified. When the big category is specified by the method of term selection, the subcategory digital number can be directed to be after the category numbers. In practice, if some clients want their addresses to be encrypted, the encrypted digital number can also be directed to be after the online number of the telephone number. This encrypted number can be proposed by the client himself and, of course, must be registered first by the address coding organization. The client only has to input continuously all of the correct numbers either by telephone dial up or computer keyboard input, which is not only convenient but also quick and efficient to get online after linking.

**[0012]** Taking into consideration that a lot of users go online solely for the purpose of sending or receiving the E-mails, indeed, some users apply only for the E-mail operation mode, when a user applies for an Internet account number, the Internet service provider always offers him an E-mail box. The name of this E-mail box is usually composed of three parts, that is, the user's name, the mail server and the symbol "@". Usually, a character string is used to express this name. For the purpose of ease of input uniformly, the addresses of the E-mail boxes can also be coded by a full digital code, which is composed of the user name digital number and the digital number of the domain name of the mail server where the mail box is located.

**[0013]** When the E-mail box is accessed and the Internet is browsed using the above coding solution, the E-mail box can be accessed, or the Internet can be browsed, by inputting to the modem of the computer by dialing up a keyboard of a dial-up telephone or the keyboard of the computer; by linking the corresponding digital code; and by converting the digital code with a dedicated software. In order to be in common use worldwide, it is necessary to set up a converter which can enable the digital addresses of this invention to correspond appropriately to

the existing Internet domain names and IP addresses. This converter is composed of interpreting software. Once a FDCA is designated, it can be converted into a respective IP address, or a domain name, or a Chinese hierarchy system domain name, and each FDCA corresponds to only one existing IP address, or a domain name, or a Chinese hierarchy system domain name. Because the computer can only recognize IP address, therefore, in the utilization of this invention, except establishing a converter to convert the FDCA into the worldwide universal domain name and IP address, a server must be designated to interpret the FDCA of this invention into an IP address, so that the computer can recognize and function.

[0014] This invention is suitable for coding the online user address of various networks. Computers from mode 486 and up and its adaptable modem can be used as the user terminal. In the application, not only the software of the operation system is used, but also support of the appropriate dialing software is needed.

[0015] This invention provides a solution that not only assigns a fixed static address to each online computer, but also assigns a dynamic address to any temporary online computer.

[0016] To make it convenient for users to use the digital address of the invention, this invention provides an auxiliary information database. The FDCA of this invention and the established online addresses, including the domain names, IP addresses and Chinese hierarchy system domain name, are listed respective with each other. These addresses can be up-loaded into the network sites. Once the database is opened by the user, the required online address can be inquired into, the users being enabled to choose a more convenient input way when getting online. The information in this database can also be compiled into files and be provided to the users for reading and inquiring into.